

## A New Species and a Newly Recorded Species of the Genus *Haplodrassus* (Araneae: Gnaphosidae) from Japan

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加村隆英<sup>1)</sup>: 日本産ハイタカグモ属 (クモ目: ワシグモ科)  
の 1 新種及び 1 新記録種

**Abstract** Two species of the genus *Haplodrassus* are reported from Japan; *H. kanenoi* sp. nov. is described and *H. cognatus* (WESTRING, 1862) is recorded from Japan for the first time.

Two species of the genus *Haplodrassus* were recorded from Japan up to this time, that is, *H. pugnans* (SIMON, 1880) and *H. montanus* PAIK et SOHN, 1984 (YAGINUMA, 1986; CHIKUNI, 1989). In this paper, I deal with two other Japanese species of this genus. Of these, one species is new to science and the other one, *Haplodrassus cognatus* (WESTRING, 1862), is new to the Japanese fauna.

Spiders of the present new species were collected from near the mouth of Obitsu River, Kisarazu-shi, Chiba Prefecture. This place is the only known locality of this species at present.

*Haplodrassus cognatus* was known from Europe (for example, REIMOSER, 1937; TULLGREN, 1946; GRIMM, 1985) and eastern Siberia (IZMAILOVA, 1989). The Japanese specimen was collected from Hokkaido.

The abbreviations used in this paper are as follows: ALE, anterior lateral eye; AME, anterior median eye; MOA, median ocular area; p, proventral; PLE, posterior lateral eye; PME, posterior median eye; r, retroventral. Eye size means the length of long axis of an eye, but the measurement of posterior median eye was made at the horizontal level.

I wish to express my sincere thanks to Mr. Susumu KANENO, Osaka, and Ms. Mayumi MATSUDA, Hokkaido, for their offering invaluable specimens.

### *Haplodrassus kanenoi* sp. nov.

(Figs. 1–6)

**Description** (based on the male holotype and the female allotype). Measurements (in mm). Body length ♂ 6.38, ♀ 9.60. Carapace length ♂ 2.93, ♀ 3.85; width ♂ 2.13, ♀ 2.83. Abdomen length ♂ 3.45, ♀ 5.75; width ♂ 1.85, ♀ 2.70. Eye sizes: AME ♂ 0.14, ♀ 0.20; ALE ♂ 0.16, ♀ 0.21; PME ♂ 0.17, ♀ 0.18; PLE

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Table 1. Measurements of legs of *Haplodrassus kanenoi* sp. nov. (♂/♀; in mm).

Leg	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
I	2.40/2.85	1.48/1.90	2.10/2.40	1.63/1.85	0.95/1.05	8.56/10.05
II	1.85/2.28	1.10/1.45	1.43/1.68	1.18/1.40	0.78/0.85	6.34/ 7.66
III	1.53/1.90	0.85/1.05	1.03/1.23	1.03/1.23	0.70/0.75	5.14/ 6.16
IV	2.40/2.90	1.25/1.58	2.08/2.48	2.03/2.40	0.90/0.98	8.66/10.34

♂ 0.14, ♀ 0.15. Distances between eyes: AME–AME ♂ 0.10, ♀ 0.12; AME–ALE ♂ 0.04, ♀ 0.09; PME–PME ♂ 0.06, ♀ 0.12; PME–PLE ♂ 0.20, ♀ 0.30; ALE–PLE ♂ 0.12, ♀ 0.18. MOA anterior width ♂ 0.41, ♀ 0.51; posterior width ♂ 0.40, ♀ 0.48; length ♂ 0.48, ♀ 0.58. Clypeus height ♂ 0.10, ♀ 0.13. Length of legs as shown in Table 1.

Ventral spines on legs I and II. ♂ and ♀: Tibiae: I and II 0–0–0; metatarsi: I 0–0–0, II 2–0–0.

Chelicera with three teeth on promargin of fang furrow and two teeth on retro-marginal (♂ and ♀). Male palp (Figs. 1–4): terminal apophysis with basal part wrinkled and apical part rounded; embolar tip sharply pointed retrolaterally; median apophysis hooklike, situated retrolaterally; tibial apophysis with apical part truncated obliquely and with a longitudinal ridge on dorsal side. Epigynum with an anterior hood relatively narrow and with a pair of sclerotized ridges forming V-shape (Fig. 5). Female genitalia with epigynal ducts somewhat sinuous (Fig. 6).

Color. ♂: Body and appendages wholly yellowish brown, but eye area and mouth parts dark reddish brown; abdomen with cardiac area darker. ♀: Body and appendages wholly light reddish brown, but eye area and mouth parts dark brown; palps with tibiae and tarsi darker and legs with tibiae I, metatarsi I and tarsi I and II darker.

*Variation.* 1♂ other than the holotype: Body length 7.05 mm; carapace length 3.00 mm, width 2.23 mm.

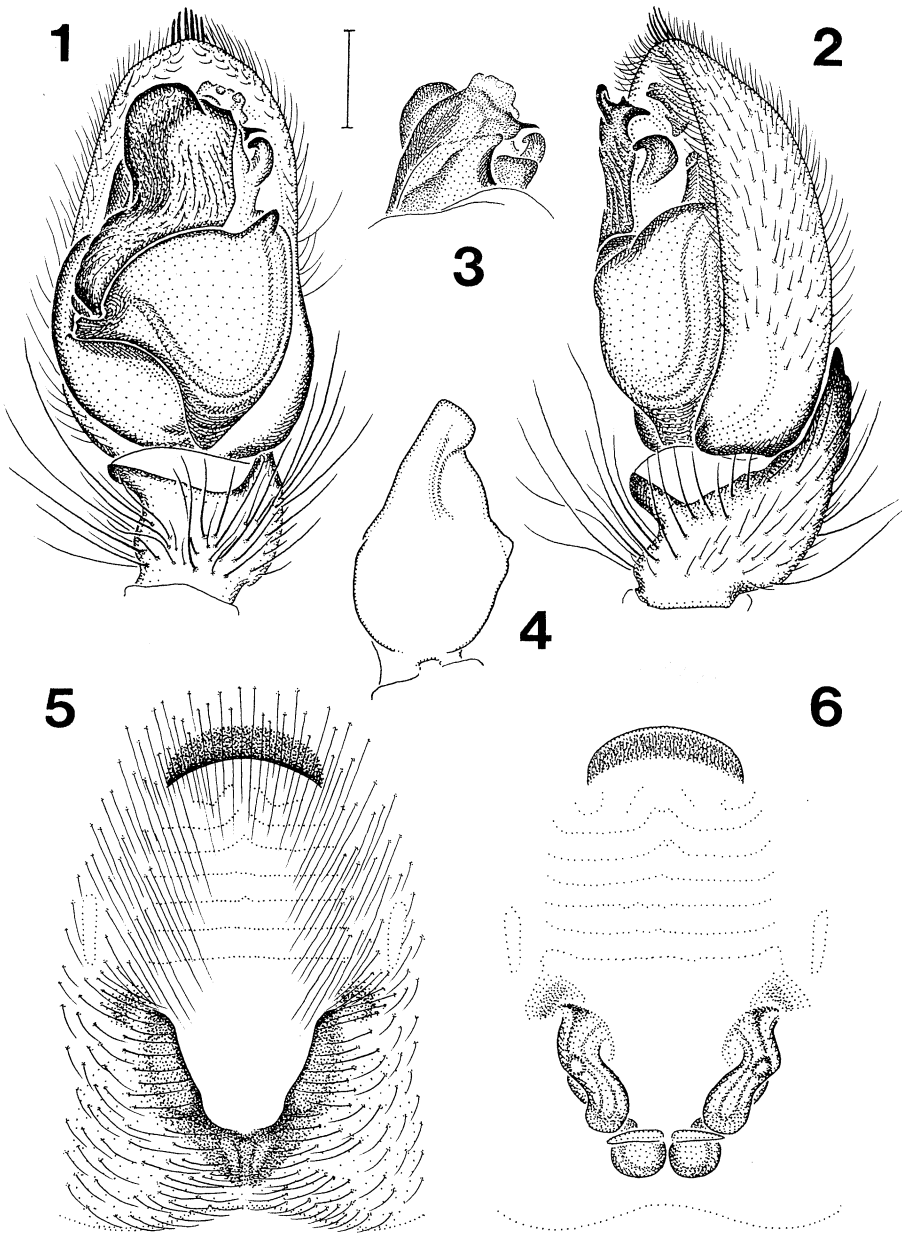
1♀ other than the allotype: Body length 6.35 mm; carapace length 2.30 mm, width 1.65 mm. Metatarsus II with no spine or one spine (1r–0–0) on venter. This specimen is rather smaller in size and lighter in color than the allotype.

*Type series.* Holotype: ♂, Kuroto (near the mouth of Obitsu River), Kisarazu-shi, Chiba Pref., Japan, 21. III. 1993 (S. KANENO). Allotype: ♀, 22. III. 1992, same locality and collector as for the holotype. The type specimens will be deposited in the collection of the National Science Museum (Natural History), Tokyo.

*Other specimens examined.* 1♀, 28. IV. 1992; 1♂, 21. III. 1993, same locality and collector as for the holotype.

*Distribution.* Japan (known only from the type locality).

*Remarks.* This new species seems to be related to the European *Haplodrassus moderatus* (KULCZYŃSKI, 1897), but is distinguished from the latter by the shape of embolus in male palp and by the structure of female genitalia. In *H. kanenoi* embolar tip is sharply pointed retrolaterally and epigynal ducts are not expanded posterolaterally, while in *H. moderatus* embolar tip is bent and epigynal ducts are



Figs. 1–6. *Haplodrassus kanenoi* sp. nov. (male holotype and female allotype).—1. Left male palp, ventral view. 2. Same, retrolateral view. 3. Apical part of right male palp, dorsal view. 4. Tibial apophysis of left male palp, dorsal view. 5. Epigynum, ventral view. 6. Female genitalia, dorsal view. (Scale: 0.2 mm.)

expanded posterolaterally (cf. GRIMM, 1985, figs. 154, 174–175).

*Etymology.* The specific name is dedicated to Mr. Susumu KANENO, Osaka Pref., who collected the specimens.

***Haplodrassus cognatus* (WESTRING, 1862)**

(Figs. 7–8)

*Drassus cognatus* WESTRING, 1862, p. 343.

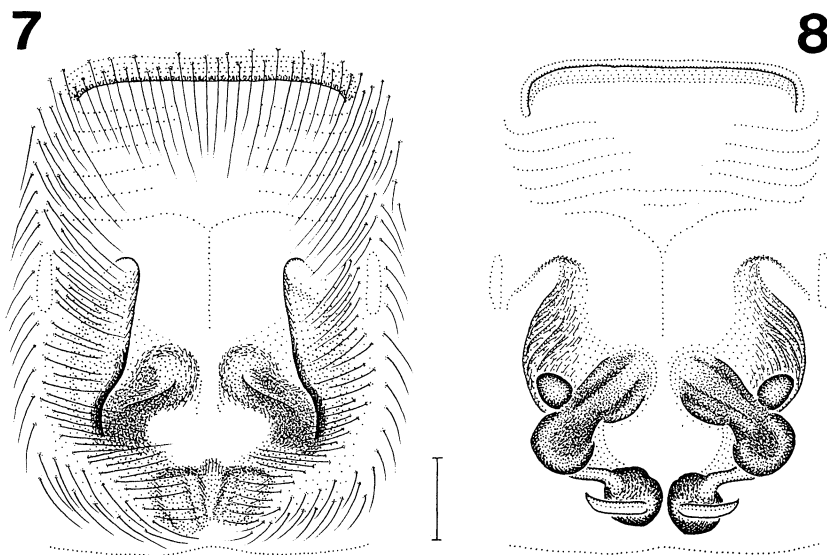
*Haplodrassus cognatus*: CAPORACCO, 1936, p. 334.—REIMOSER, 1937, p. 16, figs. 34–35.—TULLGREN, 1946, p. 106, figs. 31 C, pl. 17, figs. 221–224.—ROEWER, 1954, p. 399.—BONNET, 1957, p. 2088.—GRIMM, 1985, p. 134, figs. 155, 168–169.—PLATNICK, 1989, p. 475; 1993, p. 654.—IZMAILOVA, 1989, p. 105, fig. 88.—HEIMER & NENTWIG, 1991, p. 428, figs. 1130. 1–4.

For other literature see ROEWER (1954), BONNET (1957) and GRIMM (1985).

*Description* (based on 1♀ from Hokkaido). Measurements (in mm). Body length 10.40. Carapace length 3.70, width 2.80. Abdomen length 6.70, width 3.60.

Table 2. Measurements of legs of *Haplodrassus cognatus* (WESTRING, 1862) (♀; in mm).

Leg	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
I	2.40	1.50	1.98	1.58	1.03	8.49
II	2.23	1.40	1.75	1.50	0.98	7.86
III	2.00	1.20	1.58	1.60	0.95	7.33
IV	2.68	1.55	2.38	2.65	1.25	10.51



Figs. 7–8. *Haplodrassus cognatus* (WESTRING, 1862) (Hokkaido).—7. Epigynum, ventral view. 8. Female genitalia, dorsal view. (Scale: 0.2 mm.)

Eye sizes: AME 0.21, ALE, 0.20, PME 0.20, PLE 0.16. Distances between eyes: AME-AME 0.10, AME-ALE 0.04, PME-PME 0.08, PME-PLE 0.18, ALE-PLE 0.14. MOA anterior width 0.50, posterior width 0.48, length 0.54. Clypeus height 0.16. Length of legs as shown in Table 2.

Ventral spines on legs I and II. Tibiae: I 0-0-0, II 0-0-1p; metatarsi: I and II 2-0-0.

Chelicera with three teeth on promargin of fang furrow and two teeth on retro-margin. Epigynum and female genitalia as shown in Figs. 7-8.

Color. Cephalothorax and appendages light reddish brown, but chelicerae dark brown; palps with tibiae and tarsi darker, legs with tibiae I, metatarsi I and II and tarsi I and II darker. Abdomen light grayish brown.

*Specimen examined.* 1♀, Nukabira, Kamishihoro-chô, Katô-gun, Hokkaido, 2. VII. 1988 (M. MATSUDA).

*Distribution.* Japan (Hokkaido); Palearctic.

## 摘 要

日本産ハイタカグモ属の1新種を *Haplodrassus kanenoi* sp. nov. カズサハイタカグモ (新称) と命名して記載し, *Haplodrassus cognatus* (WESTRING, 1862) キタグニハイタカグモ (新称) を日本新記録種として報告した.

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